

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of cooling a space or living beings within the space, the space to be cooled defined at least in part by existing functional structural elements having primary functions unrelated to transport of cooling liquid but including at least one substantially liquid-tight passage containing rigid, elongated tubular element defining a substantially liquid-tight passage, comprising:
 - a) providing mounting at least one misting nozzle in operative association with the substantially liquid-tight passage containing said tubular element; and
 - b) supplying liquid under pressure to flow through [the] said existing substantially liquid-tight passage containing element and confined thereby passage so that the liquid is supplied emitted through said nozzle as a mist directly into the space through the nozzle to be cooled to thereby evaporatively cool the space or living beings within the space.
2. (Currently Amended) A method as recited in claim 1 wherein a) and b) are practiced using a hollow substantially rigid canopy frame component on a watercraft as the substantially liquid-tight passage containing rigid elongated tubular element.
3. (Currently Amended) A method as recited in claim 1 wherein a) and b) are practiced using a hollow substantially rigid rail or supporting frame on a watercraft as the substantially liquid-tight passage containing rigid elongated tubular element.
4. (Original) A method as recited in claim 1 wherein b) is practiced by supplying fresh water under a pressure of between about 200-1000 psi.

5. (Original) A method as recited in claim 1 wherein a) and b) are practiced to provide a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns in the space,

6. (Original) A method as recited in claim 1 wherein a) and b) are practiced to provide the mist through a portion of a light fixture.

7. (Original) A method as recited in claim 4 wherein a) and b) are practiced to provide the mist through a portion of a light fixture on a watercraft.

8. (Original) A method as recited in claim 4 wherein a) and b) are practiced to provide a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns in the space.

9. (Currently Amended) A method of cooling a space, or humans within the space, on a watercraft in an aesthetically acceptable manner, by a) supplying fresh water through a substantially rigid, elongated structural element of the watercraft to a plurality of nozzles mounted in said structure element; and b) directly misting the fresh water into the ~~watercraft~~ space through said plurality of nozzles as a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns.

10. (Original) A method as recited in claim 9 wherein a) is practiced by supplying the water through [an unobtrusive nozzle] said plurality of nozzles at a pressure of between about 200-1000 psi, and so that the source of the fresh water is not readily visible in the space.

11. (Currently Amended) A method as recited in claim 10 wherein a) is practiced to direct the mist downwardly into a space covered by a canopy on a deck portion of the watercraft, and wherein a) is ~~further practiced by transporting the water directly through said structural element comprises~~ one or more hollow substantially rigid and water-tight frame elements

supporting the canopy ~~and through a plurality of nozzles in communication with the hollow interior of the one or more frame element.~~

12. (Currently Amended) A method as recited in claim 10 wherein, when in the space the temperature is above 80 degrees F and the relative humidity is above 80%, a) is further practiced by chilling the water to a temperature between about 33-50 degrees F, and misting the chilled water into the space.

13. (Original) A method as recited in claim 10 wherein said structural element comprises a light fixture, and a) is practiced by supplying the mist from [a] said plurality of nozzles mounted in a portion of [a] said light fixture [of the watercraft].

14. (Currently Amended) A method as recited in claim 10 wherein said structural element comprises a substantially rigid hollow rail or superstructure frame element of the watercraft and a) is practiced by supplying the mist from a said plurality of nozzles mounted on a least one of an otherwise functional substantially rigid hollow rail or superstructure frame element of the watercraft in said frame element.

15. (Currently Amended) A misting system for supplying a mist of liquid into a space to cool the space or living beings within the space, comprising:

~~a substantially water tight passage containing rigid, tubular element which both defines, a primary function of which is to define at least a portion of the space and transports but which is also adapted to transport liquid to be misted through a substantially water tight passage in said element directly into the space;~~

~~a nozzle operatively connected to the substantially rigid water tight element passage and positioned to supply a mist of liquid from [the passage-containing element] said passage directly into the space; and~~

a source of liquid under super-atmospheric pressure operatively connected to the ~~passage-containing~~ substantially rigid, tubular element.

16. (Original) A system as recited in claim 15 mounted on a watercraft to supply a mist of liquid directly toward a deck portion of the watercraft.

17. (Original) A system as recited in claim 16 wherein the ~~passage-containing~~ substantially rigid tubular element comprises a component of a frame for supporting a canopy, a rail, a superstructure frame element, or a light fixture.

18. (Original) A system as recited in claim 15 wherein said nozzle has at least one orifice with a diameter of between about 0.2-0.5 mm.

19. (Original) A system as recited in claim 18 wherein said source of liquid under super-atmospheric pressure comprises a source of fresh water at a pressure of between about 200-1000 psi, and operatively connected through a regulator to said [passage-containing] substantially rigid, tubular element.

20. (Currently Amended) A system as recited in claim 15 wherein said ~~passage-containing element comprises a substantially rigid and, tubular element having has~~ a first end mounting said nozzle, a body having an exterior surface with external threading over at least a portion thereof, and a second end operatively connected to said source of liquid under super-atmospheric pressure, said external threading operatively engaging [a] said structural element that in part defines said space.

21. (Original) A system as recited in claim 15 wherein said substantially rigid structural element comprises a [light fixture] substantially annular component, with an open interior of said annular component having an artificial light source therein.

22. (Original) A system as recited in claim 21 wherein a plurality of said nozzles are provided, each of which has a screw-threaded end which passes through a passage in said annular component, into a conduit connected to said source of liquid under super-atmospheric pressure.

23. (Original) A system as recited in claim 22 wherein said light fixture is on a watercraft.

24. (Original) A system as recited in claim 15 wherein a plurality of said nozzles are provided in a ceiling panel, unobtrusively extending downwardly therefrom.

25. (Original) A misting system comprising:

a substantially rigid and liquid-tight hollow element capable of withstanding at least 100 psi of liquid flowing therein;

at least one internally threaded opening formed in said element and having a land;

a misting nozzle having an orifice-containing end and a conduit end, said conduit end having a shaft and a ledge, said shaft including an externally threaded portion dimensioned and configured to be screwed threaded into said at least one internally threaded opening;

said misting nozzle externally threaded portion directly operatively engaging said internally threaded opening; and

a seal operatively disposed between said land and said ledge.

26. (Original) A system as recited in claim 25 wherein said seal comprises a ring of material which provides a substantially liquid-tight seal between said hollow element and said nozzle.

27. (Currently) ~~A system as recited in claim 25~~ A misting system comprising:

a substantially rigid and liquid-tight hollow element capable of withstanding at least 100 psi of liquid flowing therein;

at least one internally threaded opening formed in said element and having a land;
a misting nozzle having an orifice-containing end and a conduit end, said conduit end having a shaft and a ledge, said shaft including an externally threaded portion dimensioned and configured to be screwed threaded into said at least one internally threaded opening;
said misting nozzle externally threaded portion directly operatively engaging said internally threaded opening;

a seal operatively disposed between said land and said ledge; and
wherein said orifice-containing end of said nozzle has at least one orifice with a diameter of between about 0.2-0.5 mm.

28. (Original) A system as recited in claim 27 further comprising a source of fresh water at a pressure of between about 200-1000 psi, and operatively connected through a regulator to said hollow element.

29. (Original) A system as recited in claim 28 wherein said hollow element comprises a boat canopy frame element, a boat rail, or a boat superstructure element, and wherein said nozzle is positioned to mist water toward a deck area of a boat mounting said hollow element.

30. (Original) A system as recited in claim 29 further comprising a plurality of said nozzles operatively connected to said hollow element, each nozzle supplying a mist of water droplets having a maximum cross-sectional dimension of between about 5-100 microns toward said boat deck.

31. (Original) A landscape or agricultural misting system comprising: an elongated plastic pipe having a first end for insertion into the ground and a second end with a T-piece, and

an opening in said T-piece opposite said pipe; a conduit capable of transporting water under pressure and having a coupling; a misting nozzle;

and a nozzle extender passing through said opening and having a first end in operative association with said coupling and a second end operatively connected to said nozzle so that water under pressure passing through said conduit may pass through said coupling, into said extender, and mist out of said nozzle.